

- GENERAL NOTES - FIRE SUPPRESSION**
1. PROVIDE COMPLETE WET PIPE FIRE SPRINKLER PROTECTION PER NFPA 13 AND WET STANDPIPE PROTECTION PER NFPA 14 THROUGHOUT THE ENTIRE BUILDING ADDITION AS FOLLOWS:
    - a. SPRINKLER SYSTEM DESIGN SHALL BE BASED ON ORDINARY HAZARD OCCUPANCY IN MECH. EQUIP. ROOMS, STORAGE AREAS HYDRAULICALLY CALCULATED WITH A DENSITY OF .15 GPM/SQ. FT. FOR 1500 SQ. FT. REMOTE AREA OF SPRINKLER OPERATION FOR EACH DESIGN AREA. SPRINKLER SPACING SHALL NOT EXCEED 130 SQ. FT. PER SPRINKLER. ALL OTHER AREAS TO BE LIGHT HAZARD.
  2. SPRINKLERS SHALL BE LOCATED IN RELATIONSHIP TO LIGHTING FIXTURES & HVAC DIFFUSERS. SPRINKLERS SHALL BE CENTERED IN CEILING TILES (OR AT THE "QUARTER" POINTS) & MAINTAIN A SYMMETRICAL PATTERN FOR AN AESTHETICALLY PLEASING EFFECT. NO PIPING SHALL BE EXPOSED W/ THE EXCEPTION OF PIPING IN AREAS OF EXPOSED CONSTRUCTION. SEE DETAIL 2 THIS SHEET.
  3. FIRE PROTECTION RISERS AND MAINS ARE SHOWN FOR COORDINATION PURPOSES AND SHALL BE INSTALLED AS CLOSE AS POSSIBLE TO LOCATIONS INDICATED ON THIS PLAN.
  4. ALL PIPING SHALL BE CONCEALED IN AREAS OF FINISHED CONSTRUCTION. FINISHED AREAS WITH EXPOSED STRUCTURE SHALL HAVE ALL PIPING RUN ABOVE THE BOTTOM CHORD OF TRUSSES UNLESS NOTED OTHERWISE.
  5. ALL FIRE PROTECTION INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE LATEST EDITIONS OF THE INTERNATIONAL BUILDING CODE & NFPA STANDARDS.
  6. THESE PLANS ARE NOT PREPARED FOR SUBMITTAL & APPROVAL OF FIRE PROTECTION SYSTEMS. PER VA FIRE PROTECTION DESIGN MANUAL, THIS PLAN IS PROVIDED TO ASSIST CONTRACTOR IN PREPARING A COMPLETE FIRE PROTECTION BID. THE CONTRACTOR SHALL INCLUDE ALL WORK AND COSTS OF MATERIALS AND INSTALLATION, AND PREPARATION OF DRAWINGS AND HYDRAULIC CALCULATIONS.
  7. SUBMIT COMPLETE SPRINKLER / PIPING DRAWINGS AND HYDRAULIC CALCULATIONS TO AUTHORITIES HAVING JURISDICTION.
  8. PROVIDE SUPERVISORY SWITCHES FOR ALL VALVES CONTROLLING THE FIRE SPRINKLER AND STANDPIPE SYSTEMS.
  9. CONTRACTOR SHALL PERFORM A NEW FLOW TEST PRIOR TO PREPARING HYDRAULIC CALCULATIONS.
  10. PRIOR TO FABRICATION OR INSTALLATION OF PIPING, THE CONTRACTOR SHALL COORDINATE LOCATIONS & ELEVATIONS OF OTHER EQUIPMENT, INCLUDING, BUT NOT LIMITED TO LIGHT FIXTURES, DIFFUSERS, DUCTWORK, CONDUITS, PIPING, & CEILING GRID.
  11. COORDINATE ALL SPRINKLER HEAD LOCATIONS WITH ARCHITECTURAL PLANS PRIOR TO LAYOUT, FABRICATION, AND INSTALLATION OF PIPING AND HEADS.
  12. COORDINATE FINISH OF SPRINKLER HEADS WITH ARCHITECT PRIOR TO PURCHASE OR INSTALLATION.

**FIRE SUPPRESSION DRAWING NOTES**

1. STARTING POINT OF CONNECTION TO EXISTING BUILDING 335 WET-PIPE FIRE SUPPRESSION SYSTEM. CONTRACTOR TO FIELD-VERIFY EXACT LOCATION OF CONNECTION POINT.
2. FIRE SUPPRESSION MAIN LINE PIPING
3. FIRE SUPPRESSION BRANCH PIPING
4. FIRE PROTECTION EQUIPMENT - FIRE EXTINGUISHER CABINET PER NFPA 10. CABINET FURNISHED AND INSTALLED BY GENERAL CONTRACTOR. FIRE EXTINGUISHER FURNISHED AND INSTALLED BY FIRE SUPPRESSION CONTRACTOR. SEE DETAIL 1 THIS SHEET.
5. ENDING POINT OF CONNECTION TO EXISTING BUILDING 335 WET-PIPE FIRE SUPPRESSION SYSTEM. CONTRACTOR TO FIELD-VERIFY EXACT LOCATION OF CONNECTION POINT.
6. EXISTING PIPING INSTALLED IN BUILDING 335 (MRI) CORRIDOR.

**LEGEND - FIRE PROTECTION**

- FWS — COMBINATION FIRE AND DOMESTIC WATER SERVICE
- WS — DOMESTIC WATER SERVICE
- FS — FIRE SERVICE
- DIRECTION OF FLOW
- CV — CHECK VALVE
- PG — PRESSURE GAUGE
- FM — FIRE MAIN
- SV — SUPERVISED VALVE
- FS — FLOW SWITCH
- PENDENT / UPRIGHT TYPE SPRINKLER HEAD
- ▷ SIDEWALL TYPE SPRINKLER HEAD
- RECESSED PENDENT TYPE SPRINKLER HEAD
- ▷ RECESSED SIDEWALL TYPE SPRINKLER HEAD
- 11 DRAWING NOTES
- 1 DETAIL NOTES
- 123 ROOM NUMBER

**EXTINGUISHER NOTES**

1. SEE SPECIFICATION SECTION 10.44.13 FIRE EXTINGUISHER CABINET. INSTALL IN COMPLIANCE WITH NFPA AND ADA STANDARDS.
2. 10 LBS. DRY TYPE CHEMICAL FIRE EXTINGUISHER MOUNTED WITHIN CABINET ENCLOSURE.




**FIRE EXTINGUISHER AND CABINET**

SCALE: NONE

**TYPICAL SPRINKLER LOCATIONS**

SCALE: NONE

NOTE: SPRINKLERS SHALL BE POSITIONED AS SHOWN WITH A MAXIMUM 3" TOLERANCE. SHOULD ANY PART OF THIS TOLERANCE BE USED, THEN ALL THE SPRINKLERS IN THE SAME ROW SHALL BE OFFSET BY THAT SAME DISTANCE IN THE SAME DIRECTION. (EXAMPLES OF 2'-0" x 4'-0" & 2'-0" x 2'-0" CEILING TILE)

3023.00 ISSUED FOR BIDDING		01-31-2013		<div></div> <div><b>CONTECH DESIGN, INCORPORATED</b> <i>Consulting Professional Engineers</i></div> <div>519 Windsor Park Dr., Centerville, Ohio 45459 Phone: (937) 435-3722 Fax: (937) 435-4685 Email: engineers@contechdesign.com Engineer Project # 12014</div>		<div></div>		Revised By:		<div>Drawing Title</div> <div><b>FIRE SUPPRESSION NEW WORK FLOOR PLANS</b></div> <div>Approved: Project Manager RANDI FIORINA</div> <div>Approved: Service Chief GARY ABREU</div>		<div>Project Title</div> <div>SITE PREP FOR CT SCANNER</div> <div>Building Number 335</div> <div>Checked PNS</div> <div>Drawn CONTECH</div> <div>Location 4100 WEST THIRD STREET DAYTON, OH 45428</div>			<div>Date 01-31-2013</div> <div>Project No. 552-COI-333</div> <div>Drawing No. FA 1.0</div>		<div></div> <div>VA Department of Veterans Affairs</div>	
Revisions		Date																



0 6" three inches = one foot  
1 6" one and one half inches = one foot  
2 6" one inch = one foot  
3 6" one inch = one foot  
4 6" one half inch = one foot  
5 6" one half inch = one foot  
6 6" one eighth inch = one foot  
7 6" one eighth inch = one foot  
8 6" one eighth inch = one foot  
9 6" one eighth inch = one foot  
10 6" one eighth inch = one foot  
11 6" one eighth inch = one foot  
12 6" one eighth inch = one foot  
13 6" one eighth inch = one foot  
14 6" one eighth inch = one foot  
15 6" one eighth inch = one foot  
16 6" one eighth inch = one foot

## PLUMBING FIXTURE SCHEDULE

THE PC SHALL FURNISH AND INSTALL, PROVIDE ROUGH-IN, AND ALL FINAL CONNECTIONS FOR ALL FIXTURES AND EQUIPMENT SHOWN ON THIS SCHEDULE AND ON THE DRAWINGS. COORDINATE AND VERIFY FINAL LOCATIONS OF EQUIPMENT WITH ARCH. AND PLUMBING DRAWINGS PRIOR TO INSTALLATION OF ANY FIXTURES, EQUIPMENT, AND/OR PIPING.

SYMBOL	DESCRIPTION	MOUNTING HEIGHT	SUPPLY			WASTE AND VENT			FIXTURE			SUPPLY TRIM		SUPPLY/STOP		WASTE TRIM		TRAP/FIXTURE DR.		MISC.		CARRIER		SEE FIXTURE SCHEDULE NOTES
			E.W.	E.W.	E.W.	FIX. OUTLET	TRAP	FIX. DRAIN	WASTE-MIN.	WASTE-MIN.	INDIRECT	AIR GAP	AIR BREAK	MFR.	CAT. NOS.	MFR.	CAT. NOS.	MFR.	CAT. NOS.	MFR.	CAT. NOS.	MFR.	UNIT	
WC1	WATER CLOSET/WALL HUNG/AUTO FLUSH VALVE	15" RIM	1"	1"	1"	4"	INT	4"	4"	2"	---	---	---	---	UNIT	---	UNIT	---	UNIT	---	UNIT	---	UNIT	2,5
WC2	WATER CLOSET/WALL HUNG/AUTO FLUSH VALVE/A.D.A.	17" RIM	1"	1"	1"	4"	INT	4"	4"	2"	---	---	---	---	UNIT	---	UNIT	---	UNIT	---	UNIT	---	UNIT	2,5
L1	LAVATORY/ WALL HUNG / 20" X 27" / A.D.A.	34" RIM	3/4"	3/4"	3/4"	3/4"	---	3/4"	3/4"	3/4"	---	---	---	---	UNIT	---	UNIT	---	UNIT	---	UNIT	---	UNIT	1,2
WHD1	WALL HYDRANT/ NON-FREEZE/ VACUUM BREAKER	20" AFG	3/4"	3/4"	3/4"	---	---	---	---	---	---	---	---	---	UNIT	---	UNIT	---	UNIT	---	UNIT	---	UNIT	---
TP1	TRAP PRIMER / ABOVE FLOOR / 1/2" BALL VALVE ON BRANCH	N/A	3/4"	3/4"	3/4"	---	---	---	---	---	---	---	---	---	UNIT	---	UNIT	---	UNIT	---	UNIT	---	UNIT	3
S1	SINK-SINGLE BOWL VIT. CHINA UNDERMOUNT 21-1/4" X 15-1/4"	UNDER C.	3/4"	3/4"	3/4"	3/4"	---	3/4"	3/4"	3/4"	---	---	---	---	UNIT	---	UNIT	---	UNIT	---	UNIT	---	UNIT	4,5

SCHEDULE NOTES:  
1. COLOR SELECTION BY ARCHITECT.  
2. PROVIDE CHROME PLATED BRASS/STAINLESS STEEL AND NIPPLES TO WALL.  
3. INSTALL DISTRIBUTION UNIT AS NECESSARY FOR CONNECTION TO MULTIPLE FLOOR DRAINS.  
4. FAUCET: GOSSENCK (8") WITH 4" WHIST BLADES BOTH SIZES, 2.0 GPM AERATOR, 6.5" DEPTH.  
5. PROVIDE LINE-SIZE SHOCK ABSORBERS ON ALL HW AND DW BRANCHES.

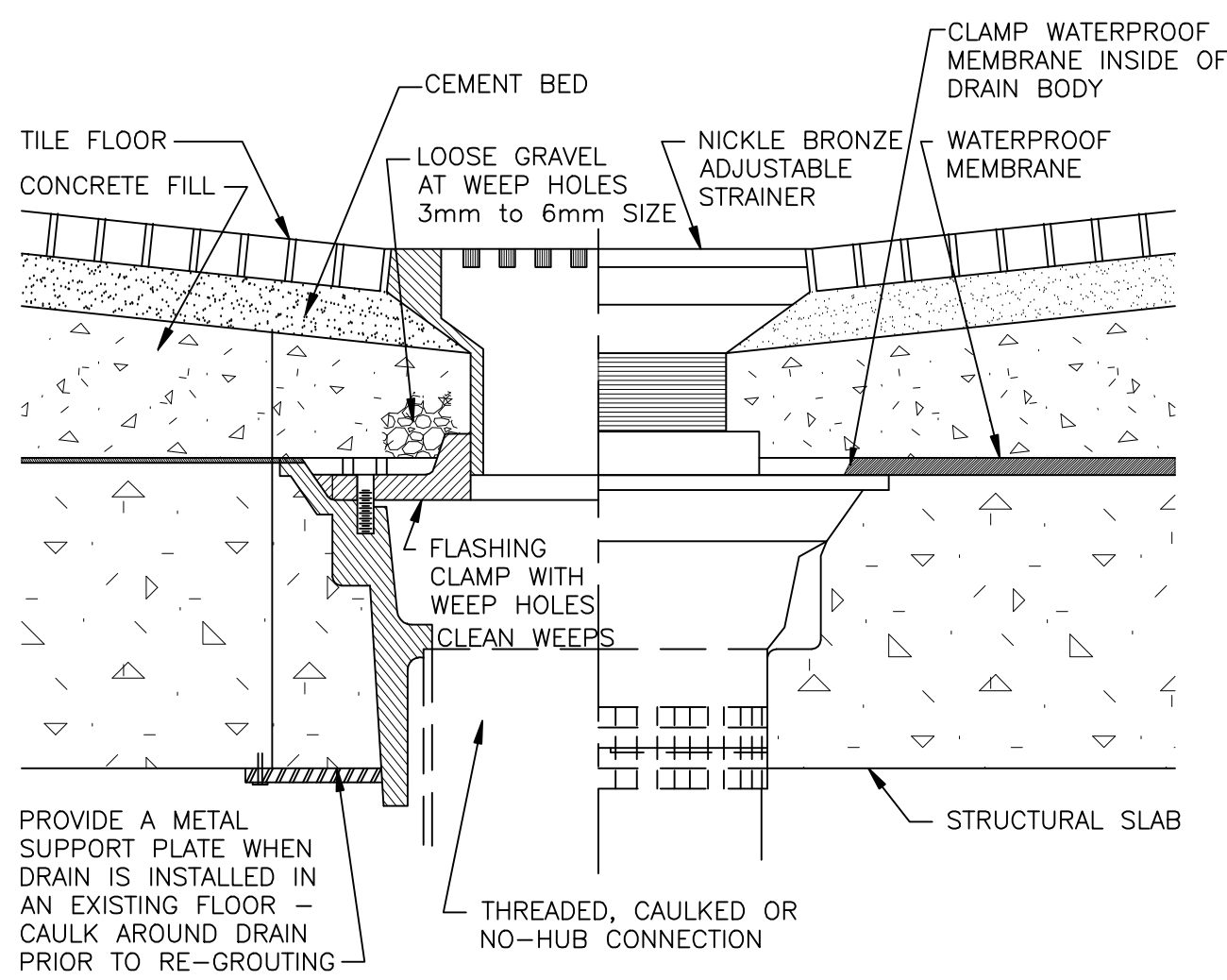
## DRAIN SCHEDULE

MARK	MANUFACTURER (OR APPROVED EQUAL)	TYPE	BODY	OUTLET	STRAINER/GRATE	TOP FINISH	ADDITIONAL FEATURES			SEE DRAIN SCHEDULE NOTES
							ADJUSTABLE	FLAT	DOM	
FD1	N/A	FLOOR	CAST IRON	3"	5" RD	NICKEL-BRONZE	---	---	---	1
CO	N/A	ROOF	BRASS	3"	5" RD	CAST IRON	---	---	---	2
RD	N/A	AREAWAY	ACID RESIST.	4"	15" RD	ACID RESIST.	---	---	---	---
ERD	N/A	WALL	STAINLESS STEEL	4"	15" RD	STAINLESS STEEL	---	---	---	---

SCHEDULE NOTES:  
1. PROVIDE TRAP PRIMER CONNECTIONS TO ALL FLOOR DRAINS.  
2. TAGS: TAG "STORM," "SANITARY," OR "LAB" TAGS AS APPLICABLE ON ALL CLEANOUT COVERS. SEE ISOMETRIC SHEET PL 2.0.

## LEGEND - PLUMBING - NOT ALL ARE USED.

---CWS--- COMBINATION FIRE AND DOMESTIC WATER SERVICE	---S--- SHUT-OFF VALVE
---WS--- DOMESTIC WATER SERVICE	---G--- GAS SHUT-OFF VALVE
---FS--- FIRE SERVICE	---S--- SHUT-OFF VALVE ON DROP
---GS--- GAS SERVICE	---S--- SHUT-OFF VALVE ON RISER
---WTR--- WATER MAIN	---P--- PRESSURE GAUGE
---SAN--- SANITARY SEWER	---T--- THERMOMETER
---STM--- STORM SEWER	---S--- SPRINKLER PIPE
---S--- SANITARY PIPING	---F--- FIRE MAIN
---V--- SANITARY VENT PIPING	---S--- SUPERVISED VALVE
---GD--- GARAGE DRAINAGE PIPING	---F--- FLOW SWITCH
---GDV--- GARAGE DRAINAGE VENT PIPING	---GCO--- GRADE CLEANOUT
---I--- INDIRECT WASTE PIPING	---FDO--- FLOOR CLEANOUT
---ST--- STORM DRAINAGE PIPING	---WCO--- WALL CLEANOUT
---CW--- (CW) DOMESTIC COLD WATER	---FR--- FIRE RISER (STAND PIPE / SPRINKLER)
---HW--- (HW) DOMESTIC HOT WATER - 120 F	---SS--- SANITARY STACK
---HWR--- (HWR) DOMESTIC HOT WATER RETURN - 120 F	---VS--- VENT STACK
---OXY--- MEDICAL OXYGEN PIPE	---VR--- VENT RISER
---MA--- MEDICAL AIR PIPE	---VTR--- VENT THRU ROOF
---VAC--- MEDICAL VACUUM PIPE	---SR--- SUPPLY RISER
---140--- DOMESTIC HOT WATER - 140°F	---DS--- DOWNSPOUT
---140R--- DOMESTIC HOT WATER RETURN - 140°F	---AFT--- ABOVE FINISH FLOOR
---NFW--- NON-POTABLE COLD WATER	---AFG--- ABOVE FINISH GRADE
---TP--- TRAP PRIMER SUPPLY	---INV--- INVERT ELEVATION
---G--- NATURAL GAS PIPING	---WC1--- FIXTURE SYMBOL
---P--- PIPE DROP	---1--- DRAWING NOTES
---P--- PIPE RISER	---1--- DETAIL NOTES
---P--- DIRECTION OF PITCH	---123--- ROOM NUMBER
---P--- DIRECTION OF FLOW	---WC1--- TO FIXTURE ABOVE
---U--- UNION	---13--- CONNECT TO EXISTING
---C--- CHECK VALVE	---13--- SANITARY ISOMETRIC DESIGNATION
---S--- SHUT-OFF VALVE	



### 1 FLOOR DRAIN DETAIL (FD1)

SCALE: NONE

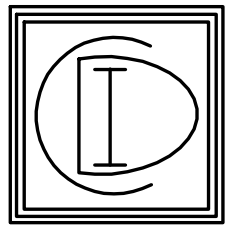
## GENERAL NOTES - PLUMBING

- ALL SANITARY PIPING IS BELOW THE FLOOR SLAB UNLESS OTHERWISE INDICATED.
- ALL VENT AND STORM PIPING IS ABOVE THE CEILING (AS HIGH AS POSSIBLE IN EXPOSED STRUCTURAL AREAS) UNLESS OTHERWISE INDICATED.
- ALL SUPPLY PIPING IS ABOVE THE CEILING (AT THE CEILING IN EXPOSED STRUCTURAL AREAS) UNLESS OTHERWISE INDICATED.
- REFER TO SCHEDULES, DETAILS AND DIAGRAMS FOR ANY PIPING/PIPE SIZES NOT INDICATED ON FLOOR PLAN.
- THE LOCATION AND SIZES OF ALL EXISTING PIPING HAS BEEN DETERMINED FROM EXISTING DRAWINGS. THE PLUMBING CONTRACTOR SHALL VERIFY, BEFORE STARTING ANY INSTALLATION, THE EXACT SIZE AND LOCATION OF ALL EXISTING PIPING AT THE POINTS OF CONNECTION AND THAT THERE IS ADEQUATE SPACE TO INSTALL ALL NEW PIPING.
- PROVIDE TRAP PRIMERS (TP1) ON ALL FLOOR DRAINS.

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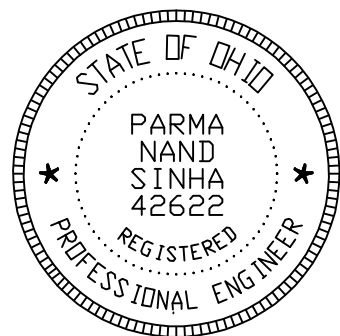
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Revised By:


Drawing Title  
**PLUMBING SCHEDULES AND DETAILS**

Approved: Project Manager  
**RANDI FIORINA**

Approved: Service Chief  
**GARY ABREU**

Project Title  
**SITE PREP FOR CT SCANNER**

Building Number  
**335**

Checked  
**PNS**

Drawn  
**CONTECH**

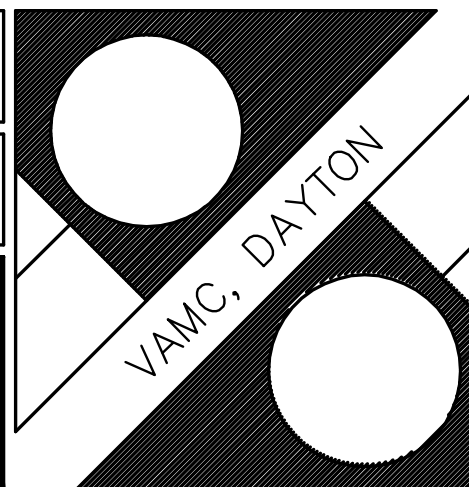
Location  
**4100 WEST THIRD STREET DAYTON, OH 45428**

Date  
01-31-2013

Project No.  
552-CSI-333

Drawing No.

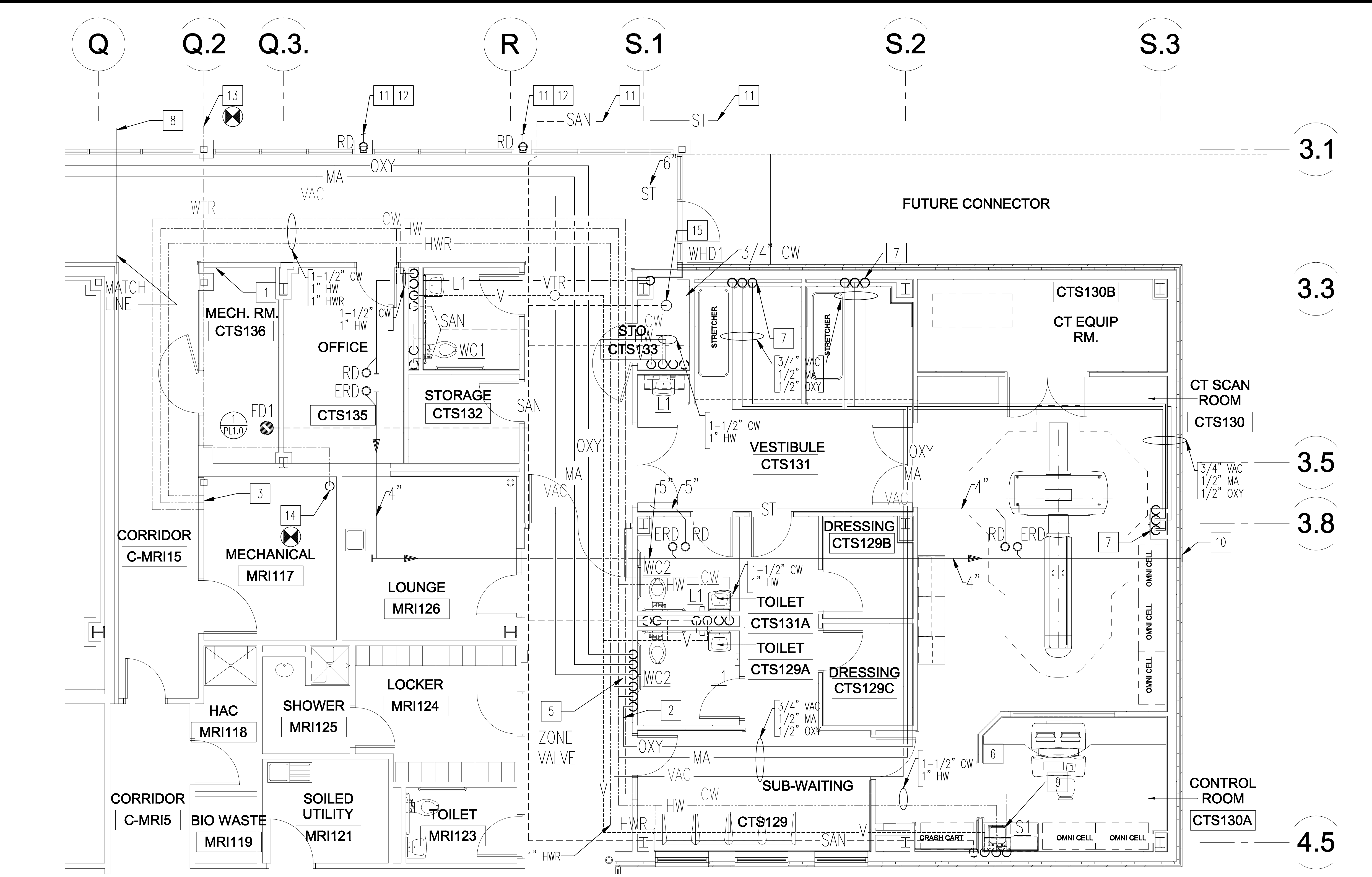
**PL 1.0**



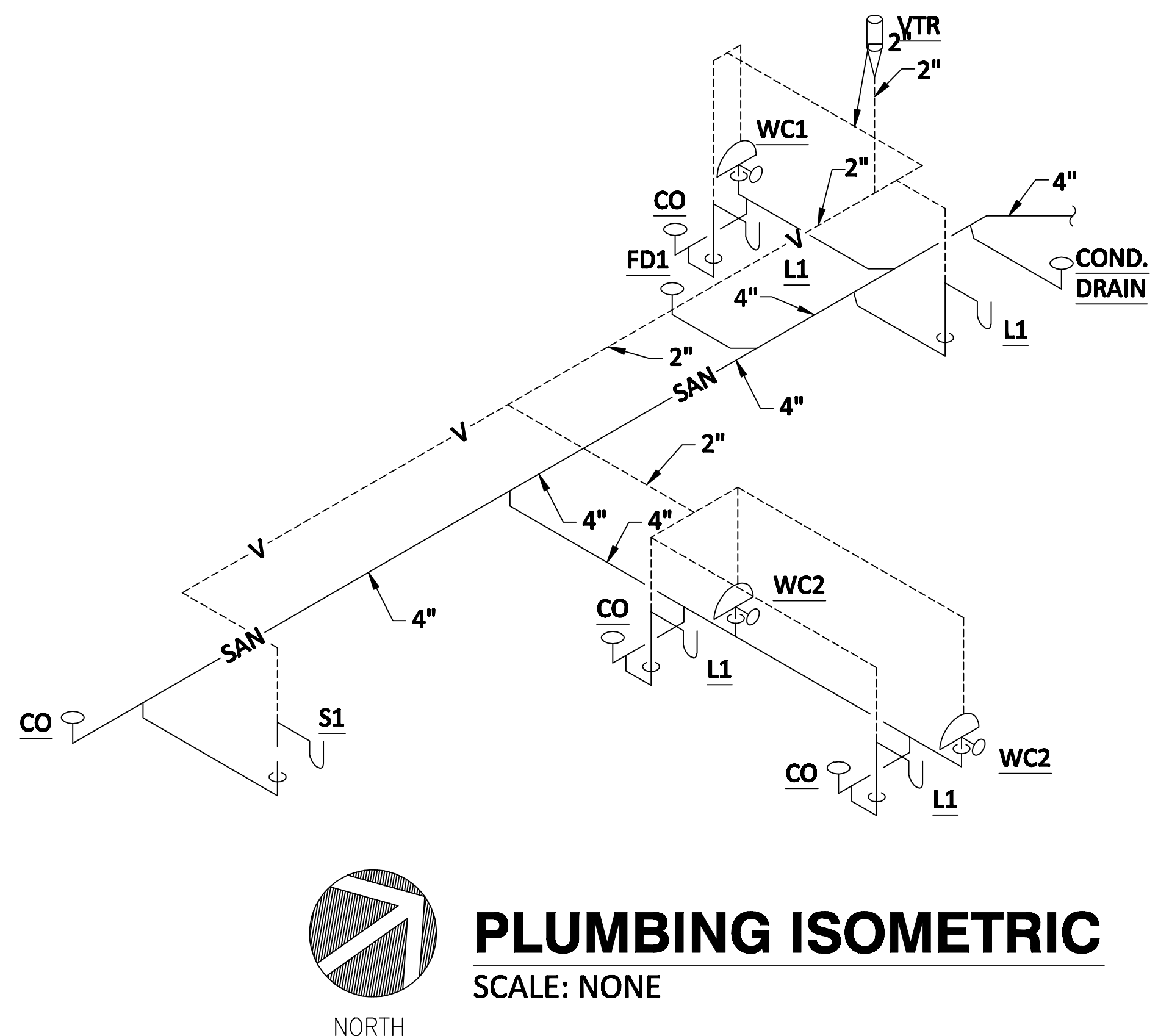
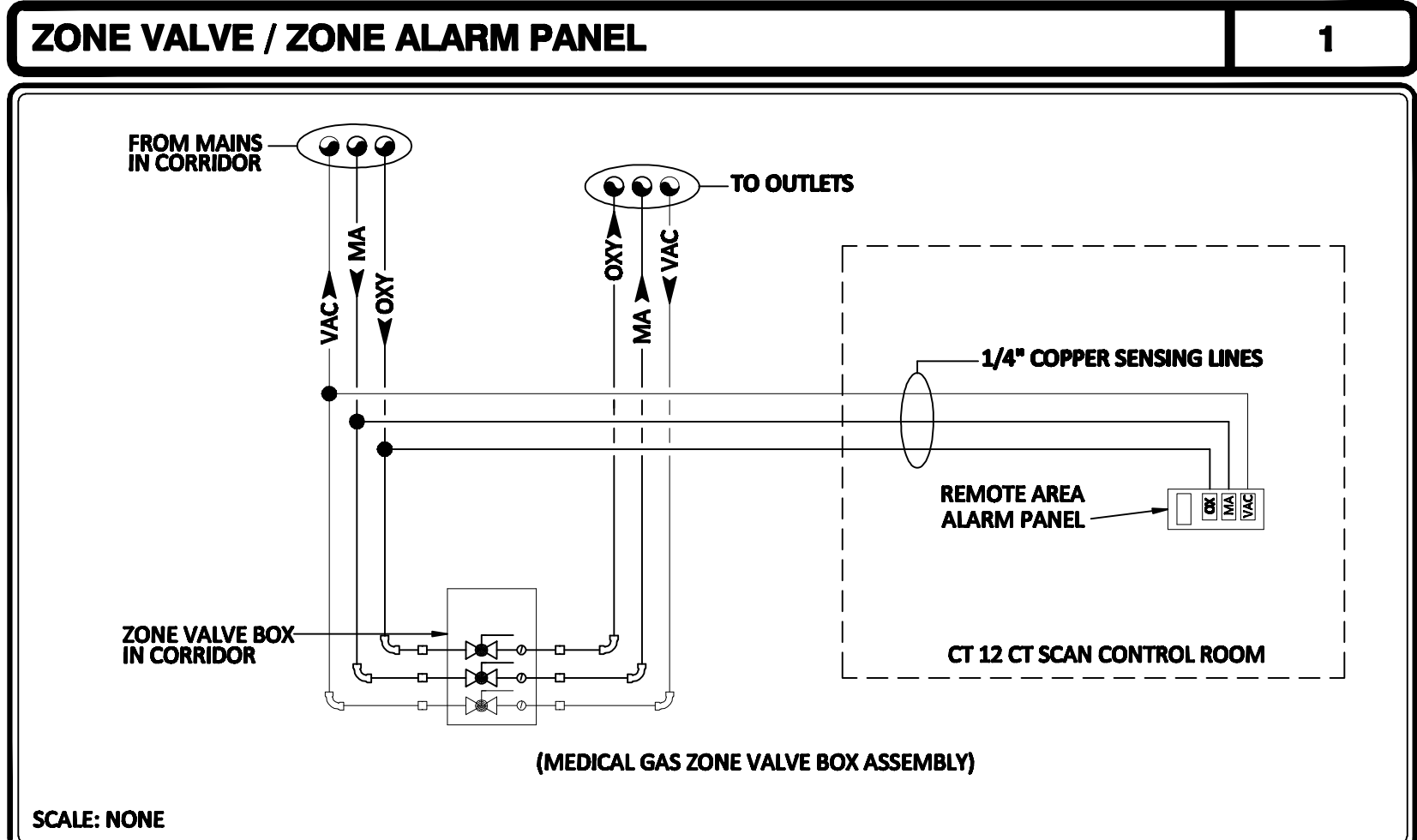
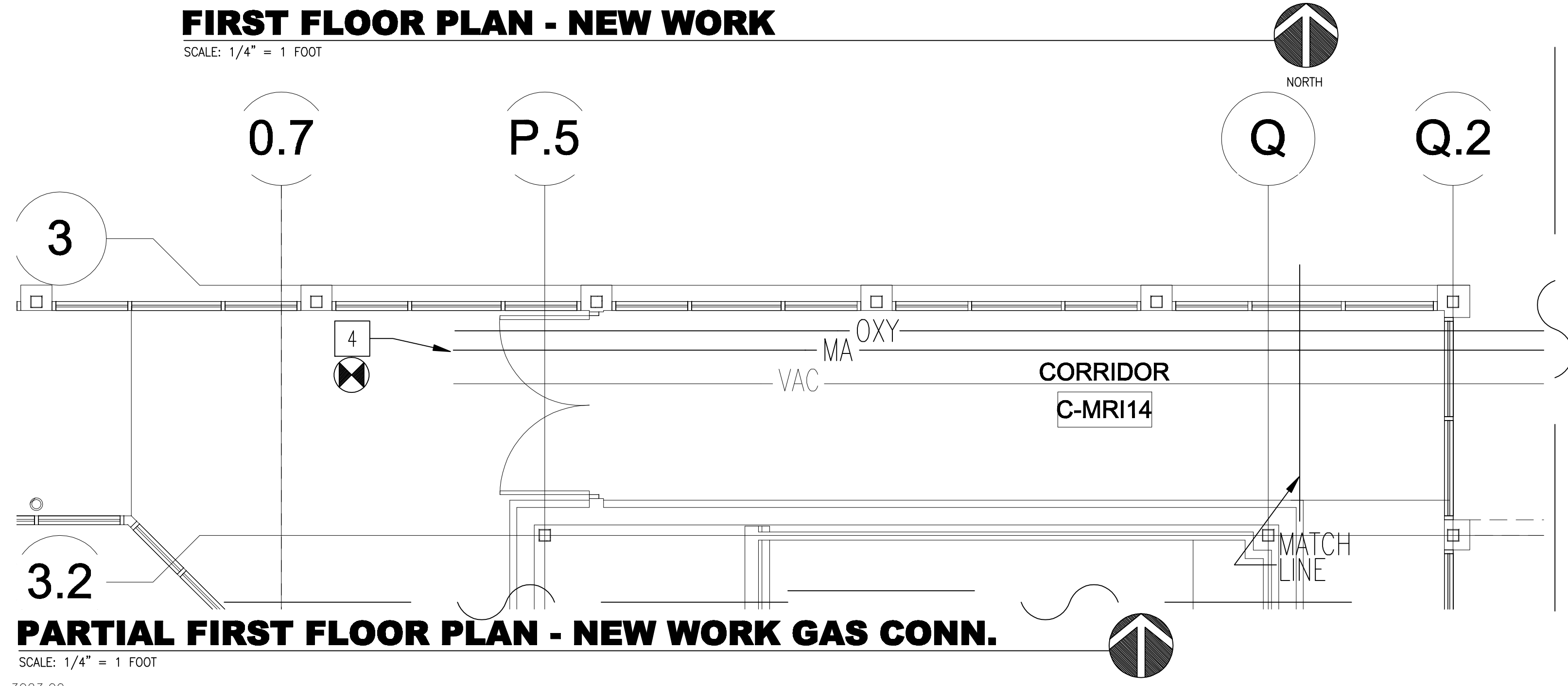
VA Department of Veterans Affairs



three inches = one foot  
one and one half inches = one foot  
one inch = one foot  
three quarters inch = one foot  
one half inch = one foot  
one quarter inch = one foot  
three eighths inch = one foot  
one eighth inch = one foot  
one eighth inch = one foot



- PLUMBING DRAWING NOTES**
1. DEMOLISH EXISTING BUILDING 335 DOWNSPOUT AND WALL HYDRANT IN THIS LOCATION. CONTRACTOR TO FIELD VERIFY EXACT LOCATION.
  2. COORDINATE PIPING LOCATION WITH SOFFIT. SEE ARCHITECTURAL PLANS.
  3. CONNECT TO EXISTING BUILDING DOMESTIC COLD WATER, DOMESTIC HOT WATER, AND HOT WATER RETURN THIS LOCATION.
  4. CONNECT TO EXISTING BUILDING OXYGEN, MEDICAL AIR, AND VACUUM THIS LOCATION. SEE CONTINUATION ON OVERALL FLOOR PLAN. CONTRACTOR SHALL FIELD VERIFY EXACT CONNECTION POINT TO EXISTING BUILDING UTILITIES.
  5. PROVIDE ZONE VALVE BOX PER SPECIFICATION SECTION 22 63 00. SEE ZONE VALVE DETAIL THIS SHEET.
  6. INSTALL ZONE VALVE REMOTE AREA ALARM PANEL AT THIS LOCATION.
  7. OXYGEN, MEDICAL AIR, AND VACUUM OUTLET BOX. SEE SPECIFICATION SECTIONS 22 62 00 AND 22 63 00. ALL MEDICAL GAS WORK SHALL BE PERFORMED IN ACCORDANCE WITH NFPA 99, INCLUDING CERTIFICATION BY AN INDEPENDENT INSPECTION FIRM.
  8. SEE ENLARGED PARTIAL FLOOR PLAN THIS SHEET FOR ADDITIONAL GAS PIPE ROUTING INFORMATION.
  9. SINK S1 SHALL BE UNDERCOUNTER-MOUNTED MODEL INSTALLED WITH SOLID SURFACE COUNTERTOP.
  10. TERMINATE EMERGENCY ROOF DRAIN LINES WITH OVERFLOW SCUPPER INTEGRATED INTO WALL SURFACE.
  11. REFER TO CIVIL SHEET GS 3.0 FOR CONTINUATION AND GRADING.
  12. 2" DOWNSPOUT IN ARCHITECTURAL ENCLOSURE. CONNECT INDIVIDUALLY TO STORM SEWER. PROVIDE SLEEVE AT PENETRATION OF STRUCTURE BELOW GRADE.
  13. CONNECTION TO RELOCATED 3" WATER MAIN. SEE SHEET GS 4.0 FOR CONTINUATION.
  14. CONNECT NEW WATER MAIN TO EXISTING MRI BUILDING 335 TEE-CONNECTION FOR BACKFLOW PREVENTER AND BYPASS LEG, ROOM MRI-117.
  15. DRAIN IN THIS ROOM SHALL BE CONNECTED TO HVAC CONDENSATE DRAIN PIPING. SEE SHEET MH 2.1.



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Revisions		Date						Approved: Project Manager RANDI FIORINA		Building Number 335		Checked PNS		Drawn CONTECH				Drawing No. PL 2.0	
								Approved: Service Chief GARY ABREU		Location 4100 WEST THIRD STREET DAYTON, OH 45428									